
Issuing Date: 2017-07-10

SECTION 1. Identification

Product identifier

Product No 8242
Product name NF-$\kappa$B p65 (D14E12) XP® Rabbit mAb

Recommended use of the chemical and restrictions on use

Identified uses For research use only.
Manufacturer, importer, supplier

Manufacturer address
Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923
United States
TEL: +1 978 867 2300
FAX: +1 978 867 2400

Website www.cellsignal.com
Email address support@cellsignal.com
Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

SECTION 2. Hazard(s) identification

Classification
This substance/mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label elements, including precautionary statements

Signal Word
Not classified

Hazard statement(s)
None.

Precautionary Statement(s)
None.

Supplementary Hazard Information
May produce an allergic reaction
Hazards not otherwise classified (HNOC)
Not applicable.

SECTION 3. Composition/information on ingredients
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>56-81-5</td>
<td>30-60</td>
</tr>
<tr>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>0.02</td>
</tr>
</tbody>
</table>

**SECTION 4. First-aid measures**

**Eye contact**
Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Get medical attention immediately if irritation persists.

**Skin contact**
Wash skin with soap and water.

**Inhalation**
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.

**Ingestion**
Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**
Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

**Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

**Advice for emergency responders**
- **General advice**
  For further assistance, contact your local Poison Control Center.
- **Protection of first-aiders**
  Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**SECTION 5. Fire-fighting measures**

**Extinguishing media**
- **Suitable Extinguishing Media**
  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- **Unsuitable Extinguishing Media**
  CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**
No information available.

**Explosion Data**
- **Sensitivity to Mechanical Impact**
  None.
- **Sensitivity to Static Discharge**
  None.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**
- **For non-emergency personnel**
  Avoid contact with skin, eyes and clothing. Use personal protective equipment. For personal protection see section 8.
- **Other information**
  No information available.
Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

SECTION 7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. See section 8. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions
Keep containers tightly closed in a dry, cool and well-ventilated place.

Packaging material
No information available.

Incompatible products
Strong oxidizing agents. Strong acids.

SECTION 8. Exposure controls/personal protection

Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>-</td>
<td>TWA mist, total particulate: 15 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA mist, respirable fraction: 5 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>sodium azide</td>
<td>Ceiling: 0.29 mg/m³</td>
<td>Ceiling: 0.11 ppm</td>
<td>Ceiling: 0.1 ppm</td>
</tr>
</tbody>
</table>

|                       | Ceiling: 0.3 mg/m³ |

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection
If splashes are likely to occur, wear: Tightly fitting safety goggles

Skin and body protection
Wear protective gloves/clothing.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state
Liquid
###SECTION 10. Stability and reactivity

**Reactivity**

No information available.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

- **Hazardous reactions**: None under normal processing.
- **Hazardous polymerization**: None under normal processing.

**Conditions to Avoid**

Extremes of temperature and direct sunlight. Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide.

**Incompatible Materials**

Strong oxidizing agents. Strong acids.

**Hazardous Decomposition Products**

Nitrogen oxides (NOx).

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###SECTION 11. Toxicological information

- **Explosive properties**: No information available
- **Oxidizing properties**: No information available

###Appearance

- **Odor**: Colorless
- **Color**: No information available

###Other information

- **Softening point**: No information available
- **Molecular Weight**: No information available
- **VOC content**: No information available
- **Density**: No information available
- **Bulk Density VALUE**: No information available

###Property

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>7.5</td>
<td>@ 20 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Upper flammability limit</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lower flammability limit</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity, dynamic</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Oxidizing properties</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Information on likely routes of exposure

Inhalation  Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact Avoid contact with eyes. May cause slight irritation.
Skin contact Avoid contact with skin.
Ingestion  Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known. Please use caution while handling this product.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>= 12600 mg/kg</td>
<td>&gt; 10 g/kg</td>
<td>&gt; 570 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(Rat)</td>
<td>(Rabbit)</td>
<td>(Rat) 1 h</td>
</tr>
<tr>
<td>sodium azide</td>
<td>= 27 mg/kg</td>
<td>= 20 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Rat)</td>
<td>(Rabbit)</td>
<td>= 50 mg/kg (Rat)</td>
</tr>
</tbody>
</table>

ATEmix (oral) >5000 mg/kg (ATE)
ATEmix (dermal) >5000 mg/kg (ATE)
ATEmix (inhalation-dust/mist) >5 mg/l (ATE)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Symptoms  Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.
Sensitization  No information available.
Mutagenic effects  No information available.
Carcinogenicity  No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity  No information available.
STOT - single exposure  No information available.
STOT - repeated exposure  No information available.
Neurological effects  No information available.
Aspiration Hazard  No information available.

SECTION 12. Ecological information

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>-</td>
<td>LC50 51 - 57 mL/L (Oncorhynchus mykiss) 96 h</td>
<td>EC50 500 mg/L (Daphnia magna) 24 h</td>
</tr>
<tr>
<td>sodium azide</td>
<td>EC50 0.35 mg/L</td>
<td>LC50 0.8 mg/L (Oncorhynchus mykiss) 96 h LC50 5.46 mg/L (Pimephales promelas) 96 h LC50 0.7 mg/L (Lepomis macrochirus) 96 h</td>
<td>LC100 1 mg/L (Orconectes rusticus) 96 h</td>
</tr>
<tr>
<td></td>
<td>(Pseudokirchneriella subcapitata) 96 h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability  No information available.
Bioaccumulation  No information available.
Mobility  No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Octanol-Water Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>-1.76</td>
</tr>
</tbody>
</table>

Other adverse effects

No information available.

SECTION 13. Disposal considerations
**Waste Disposal Methods**

Dispose of in accordance with all applicable national environmental laws and regulations.

**Disposal considerations**

Do not empty into drains; dispose of this material and its container in a safe way.

**SECTION 14. Transport information**

This material is not subject to regulation as a hazardous material for shipping.

**SECTION 15. Regulatory information**

### North American Inventory Listing

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA 8(b)</th>
<th>TSCA 12(b)</th>
<th>DSL</th>
<th>NDSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>Listed</td>
<td>Not Listed</td>
<td>Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>sodium azide</td>
<td>Listed</td>
<td>Not Listed</td>
<td>Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### Canadian Workplace Hazardous Materials Information System (WHMIS) Classification

This product does not meet the criteria for classification under the Hazardous Products Act.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### SARA 311/312 Hazard Categories

- Acute Health Hazard: No
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium azide</td>
<td>1000 lb</td>
<td>1000 lb</td>
</tr>
</tbody>
</table>

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations
U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

US Commerce Department - Export Administration Regulations Information

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

SECTION 16. Other information

Issuing Date: 2017-07-10

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet